

ANNUAL SHELLFISH MANAGEMENT REVIEW
for the period
January 1st to December 31st, 2007

Municipality: Brunswick

Date: 02/29/08

The Shellfish Conservation Committee submits the following information in partial fulfillment of its responsibilities under Chapter 7 of the Department of Marine Resources Regulations and the Shellfish Conservation Ordinance of this municipality.

Statement of Management Goals and Implementation Actions

The goals of shellfish management for this municipality have been: (check only one of each pair)

- 1) ☒ provide a harvesting opportunity for the maximum number of participants
☐ maximize individual harvest by minimizing the number of participants
- 2) ☒ increase the clam resource through various enhancement activities
☐ maintain a sustainable yield through the vigorous use of production controls
- 3) ☐ provide for recreational harvesting in preference to commercial harvesting
☒ provide for commercial harvesting in preference to recreational harvesting
- 4) ☐ maximize the economic value of the resource by adjusting production
☒ maintain a constant production to provide a steady but variable income

The following management controls were utilized: (check all that apply)

- ☒ limit the number of commercial harvesters
- ☐ limit the number of recreational harvesters
- ☒ restrict times of harvest
- ☒ restrict the areas of harvest
- ☐ limit the amount of commercial harvest
- ☒ limit the amount of recreational harvest
- ☐ other:

The following management activities were undertaken: (check all that apply)

- ☐ predator protection through fencing, netting, trapping and etc.
- ☒ reseeding from high density areas or seeding with hatchery stock
- ☒ flat surveys to determine size distribution and density
- ☐ harvester surveys to obtain catch and effort data
- ☐ enhance natural seeding through brushing, roughing and etc.
- ☐ establishing conservation areas for flat rotation
- ☒ other: Shoreline Surveys to Determine Pollution Source Existence

Shellfish Committee/Staff**Municipality:** Brunswick

Title	Name	Mailing Address	Telephone
Chair	<u>Raymond Trombley</u>	<u>43 Bay Bridge Street, Brunswick, ME 04011</u>	<u>607-1954</u>
Vice Chair	<u>Mark Latti</u>	<u>33 Hemlock Road, Brunswick, ME 04011</u>	<u>729-1592</u>
Secretary	<u>Fred Wigand</u>	<u>80 Pleasant Street, Brunswick, ME 04011</u>	<u>729-0363</u>
Member(s)	<u>John Lemont</u>	<u>21 Maple Street, Brunswick, ME 04011</u>	<u>725-6507</u>
	<u>Robert Graffam Jr.</u>	<u>42 Pleasant Street A6, Brunswick, ME 04011</u>	<u>unlisted</u>
	<u>Chirs Green</u>	<u>1 Charles Court, Brunswick, ME 04011</u>	<u>837-3630</u>
	<u>Charles Vaughn</u>	<u>866 Mere Pt. Road, Brunswick, ME 04011</u>	<u>725-8012</u>
Selectmen/ Council Rep.	<u>Susan Wilson</u>	<u>6 Bunganuc Landing, Brunswick, ME 04011</u>	<u>725-2530</u>
Wardens	<u>Dan Devereaux</u>	<u>28 Federal Street, Brunswick, ME 04011</u>	<u>725-6631</u>
	<u>John McMullen</u>	<u>28 Federal Street, Brunswick, ME 04011</u>	<u>725-6631</u>
WQSpec(s)	<u>Vanessa Lesveque</u>	<u>28 Federal Street, Brunswick, ME 04011</u>	<u>725-6639</u>

Committee Meetings

The Shellfish Committee holds regularly scheduled meetings: ☒ yes [] no

The following number of meetings was held during the past year: 12

Minutes of meetings are recorded, filed and are available upon request: ☒ yes [] no

Conservation Credit

The opportunity to obtain conservation credit is provided: ☒ yes [] no

The total number of conservation hours needed to obtain credit is 10.

Conservation credit is required to obtain a: [] renewal license

☒ new license

Conservation hours are given for:

<input checked="" type="checkbox"/> meeting attendance	<input checked="" type="checkbox"/> coastal cleanup	<input checked="" type="checkbox"/> brushing
<input checked="" type="checkbox"/> committee service	<input checked="" type="checkbox"/> surveys	<input checked="" type="checkbox"/> predator control
<input checked="" type="checkbox"/> educational activities	<input checked="" type="checkbox"/> reseeding	<input checked="" type="checkbox"/>

If conservation credit is not provided, the total number of volunteer man-hours documented for management activities during the past year is: 10.

Summary of Warden Activities

Municipality: Brunswick

Hours Patrolled:	<u>2,272</u>
Diggers Checked:	<u>2,240</u>
Warnings Given:	<u>12</u>
Summon Issued:	<u>3</u>
Court Appearances:	<u>0</u>
Convictions:	<u>2</u>

Enforcement of the shellfish management ordinance has been: ☒ satisfactory
☐ unsatisfactory

Enforcement could be improved by:

<input checked="" type="checkbox"/> more hours patrolled	<input type="checkbox"/> better training
<input checked="" type="checkbox"/> more wardens	<input checked="" type="checkbox"/> greater state support
<input checked="" type="checkbox"/> better equipment	<input checked="" type="checkbox"/> other: <i>wardens working together on a regional level</i>

The warden is provided with a written job description: ☒ yes ☐ no

Production Data Collected by the Warden

Month	Avg. Daily Catch/Digger		Avg. # of Diggers/Day		Total # of Days Dug		Total Lbs [] or Bu [X]
January	1.0	X	10	X	15	=	150
February	0.75		8		18		108
March	1.0		21		22		462
April	1.5		29		16		870
May	1.5		32		24		1,152
June	1.5		40		24		1,428
July	2.0		46		24		2,208
August	2.0		38		21		1,596
September	2.0		39		23		1,794
October	1.0		28		18		504
November	1.5		21		17		535
December	1.0		18		16		288
					TOTAL		11,095

Warden(s)

Training Date

Nomination Date

<i>Daniel Devereaux</i>	<i>05/04/07</i>	<i>01/02/07</i>
<i>Mike Smith</i>	<i>05/04/07</i>	<i>01/02/07</i>
<i>Joel Bruce</i>	<i>04/18/06</i>	<i>01/02/07</i>
<i>John McMullen</i>	<i>Pending</i>	<i>06/01/07</i>

Shellfish Conservation Budget
Municipality: Brunswick

License Receipts	Allocation	Sold	Received
<i>Commercial</i>			
Resident	51	51	\$10,200
Nonresident	6	6	\$2400
Senior Resident	-	-	\$0
Senior Nonresident	-	-	\$0
Junior/Student Resident	-	-	\$0
Junior/Student Nonresident	-	-	\$0
Other:			\$0
<i>Recreational</i>			
Resident	100	100	\$2500
Nonresident	10	10	\$50
Daily/Weekly/Monthly Res.	-	-	\$0
Daily/Weekly/Monthly Nonres.	-	-	\$0
Senior Resident	-	-	\$0
Senior Nonresident	-	-	\$0
Junior/Student Resident	-	-	\$0
Junior/Student Nonresident	-	-	\$0
Other:			\$0
SUBTOTAL (1)			\$15,100
Receipts Independent of License Fees			
Shellfish Conservation Account Carried Forward			\$0
Funds Raised for Warden			\$67,818
Funds Raised for Management Activities			\$23,866
Fines			\$609
Other			\$0
SUBTOTAL (2)			\$92,293
TOTAL Receipts (1+2)			\$107,393
Disbursements			
Warden Salary			\$67,818
Mileage			\$3,800
Clothing			\$2,300
Equipment			\$2,100
Training			\$4,250
SUBTOTAL (3)			\$80,268
Advertising			\$350
Supplies			\$2,853
Surveys			\$0
Seeding			\$0
Miscellaneous			\$520
SUBTOTAL (4)			\$3,723
TOTAL Disbursements (3+4)			\$83,991

Proposed Management Controls

Municipality: Brunswick

The following management controls will be utilized for the coming year: (check all that apply)

- ☒ limit the number of commercial harvesters
- ☐ limit the number of recreational harvesters
- ☐ restrict times of harvest
- ☐ restrict the areas of harvest
- ☐ limit the amount of commercial harvest
- ☒ limit the amount of recreational harvest
- ☐ other:

Proposed Shellfish Licenses

<u>License</u>	<u>Number</u>	<u>Cost @</u>
<i>Commercial</i>		
Resident	<u>58</u>	<u>\$300</u>
Nonresident	<u>6</u>	<u>\$450</u>
Senior Resident	<u></u>	<u></u>
Senior Nonresident	<u></u>	<u></u>
Junior/Student Resident	<u>10</u>	<u>\$75</u>
Junior/Student Nonresident	<u>1</u>	<u>\$125</u>
Other	<u></u>	<u></u>
<i>Recreational</i>		
Resident	<u>NL</u>	<u>\$25</u>
Nonresident	<u>10%</u>	<u>\$50</u>
Daily/Weekly Monthly Res.	<u></u>	<u></u>
Daily/Weekly Monthly Nonres.	<u></u>	<u></u>
Senior Resident	<u>NL</u>	<u>\$0</u>
Senior Nonresident	<u>10%</u>	<u>\$0</u>
Junior/Student Resident	<u></u>	<u></u>
Junior/Student Nonresident	<u></u>	<u></u>
Other	<u></u>	<u></u>

License number determination is based upon: ☒ calculation using survey data
☐ survey data as a guide
☐ harvester input
☐ need/demand

The above numbers are:

- ☐ tentative, the actual numbers to be determined later
- ☒ firm, have been or will be submitted to DMR

Proposed Management Activities

Municipality: Brunswick

The following management activities will be undertaken during the coming year: (check all that apply)

- ☐ predator protection through fencing, netting, trapping and etc.
- ☒ reseeding from high density areas or with hatchery stock
- ☒ flat surveys to determine size distribution and density
- ☒ harvester surveys to obtain catch and effort data
- ☐ enhance natural seeding through brushing, roughing and etc.
- ☐ establishing conservation areas for flat rotation
- ☐ other:

In order to implement these management activities the committee will utilize: (check all that apply)

- ☒ harvesters vested with conservation credit
- ☐ harvester volunteers
- ☐ paid harvesters
- ☒ municipal employees
- ☒ paid consultants
- ☐ other:

To provide a forum for harvester input in management planning, the shellfish committee plans to meet:

- ☐ annually
- ☐ biannually
- ☐ quarterly
- ☐ bimonthly
- ☒ monthly

Meeting notification for other than regularly scheduled meetings is by:

- ☒ mailing ☐ phone call ☒ posting ☒ newspaper ☒ word of mouth

In order to keep the DMR informed and to solicit advice on management activities, the shellfish committee will:

- ☐ request the area biologist to participate in all meetings
- ☐ request the area biologist to participate in only specific meetings
- ☒ invite the area biologist to attend all meetings
- ☐ invite the area biologist to attend only specific meetings

Summary of Clam Flat Survey Data**Municipality:** Brunswick

The following is a list of surveys conducted during the past year. Survey data should be attached if not previously provided to DMR. [] No surveys were conducted.

Clam Flat	Survey Date	Acreage	Density (bu/a)	Standing Crop (bu.)	%>2" by vol.
<i>Barnes Landing</i>	<i>10/1</i>	<i>8</i>	<i>164</i>	<i>553</i>	<i>42</i>
<i>Bunganuc</i>	<i>10/17</i>	<i>20</i>	<i>123</i>	<i>631</i>	<i>25</i>
<i>Buttermilk</i>	<i>9/5</i>	<i>14</i>	<i>33</i>	<i>179</i>	<i>37</i>
<i>Coombs Island</i>	<i>9/2</i>	<i>12</i>	<i>90</i>	<i>648</i>	<i>59</i>
<i>Harpswell Cove</i>	<i>9/1</i>	<i>12</i>	<i>55</i>	<i>378</i>	<i>52</i>
<i>Maquoit Bay</i>	<i>10/17</i>	<i>70</i>	<i>152</i>	<i>7,130</i>	<i>66</i>
<i>Middle Bay</i>	<i>9/20</i>	<i>125</i>	<i>109</i>	<i>7,785</i>	<i>56</i>
<i>New Meadows</i>	<i>10/2</i>	<i>8</i>	<i>36</i>	<i>177</i>	<i>61</i>
<i>Princess Point</i>	<i>9/6</i>	<i>20</i>	<i>96</i>	<i>1,039</i>	<i>54</i>
<i>Smith Cove</i>	<i>10/1</i>	<i>10</i>	<i>125</i>	<i>628</i>	<i>50</i>
<i>Thomas Point Beach</i>	<i>10/2</i>	<i>38</i>	<i>171</i>	<i>4,349</i>	<i>66</i>

The flats surveyed represent approximately 100% of the total productive flats.

Summary of Transplant Activities**Municipality:** Brunswick

The following seeding / reseeding activities were conducted during the past year.

☐ No seeding / reseeding activities were conducted.

	Event 1	Event 2	Event 3	Event 4
Date	5/20			
Supervisor	Raymond Trombley			
Crew #	10			
Amount	10 Bushels			
Mean Size (in.)	0.75			
Size Range (in.)	0.25 to 1.25			
Source				
Source Flat	Long Reach			
Receiv. Flat	Buttermilk			
Netted (y/n)	no			
Closed until				

	Event 5	Event 6	Event 7	Event 8
Date				
Supervisor				
Crew #				
Amount				
Mean Size (in.)				
Size Range (in.)				
Source				
Source Flat				
Receiv. Flat				
Netted (y/n)				
Closed until				

Summary of Conservation Closures

Municipality: Brunswick

The following is a list of conservation closures implemented or in effect during the past year.
(This table is for areas normally open.) [] No conservation areas were closed.

Conservation Area	Acreage	Closing Date	Opening Date	Days Closed*	Reason
<i>Town Wide Weekend</i>	<i>337</i>	<i>1/1</i>	<i>Indefinite</i>	<i>108</i>	<i>Sustainability</i>

*during 2007

Summary of Conservation Openings

The following is a list of conservation openings implemented or in effect during the past year.
(This table is for areas normally closed.) [] No conservation areas were opened.

Conservation Area	Acreage	Opening Date	Closing Date	Days Open*	Reason
<i>Gurnet Straits</i>	<i>8</i>	<i>1/1</i>	<i>Indefinite</i>	<i>108</i>	<i>Sustainability</i>

*during 2007

Additional Activities**Municipality:** BrunswickSpatfall Enhancement

The following is a list of activities to promote clam settlement such as brushing, flat roughing, tenting or netting. ☒ No such activities were conducted.

Location	Date	Description

Predator Protection

The following is a list of activities to protect clams from predators such as trapping, netting and hand collecting. ☒ No such activities were conducted.

Location	Date	Description

Other Activities

The following is a list of other activities that benefit, directly or indirectly, the management program such as educational projects, participation in regional councils and shoreline cleanup. ☐ No such activities were conducted.

Location	Date	Description
<i>Harpswell Cove Shoreline Survey</i>	<i>6/07</i>	<i>Participated in Pollution detection survey</i>
<i>Bull Pen Shoreline Survey</i>	<i>6/07</i>	<i>Attempted to identify pollution contributing to poor water quality</i>
<i>Harpswell Cove</i>	<i>6/07</i>	<i>Established Depuration management plan for area once reclassified</i>
<i>Harpswell Island School</i>	<i>5/07</i>	<i>Conducted outreach educating children on clam biology and mangement</i>
<i>Augusta Legislative participation</i>	<i>1-12/07</i>	<i>Numerous testimony on bills in the 123rd legislature (Council Chairman)</i>
<i>Brunswick Water Quality</i>	<i>1-12/07</i>	<i>Collect water quality for classification purposes</i>